

Segment ID: 0606

Water body name: Neches River Above Lake Palestine

Freshwater Stream

Neches River Basin

Total size:

27 Miles

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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Aquatic Life Use

2002	Dissolved Oxygen grab average	No Concern	Lower boundary to Prairie Creek	3.8	19	0	
2002	Dissolved Oxygen grab average	Use Concern	Prairie Creek to river mile 7.0	3.2	12	2	
2002	Dissolved Oxygen grab average	Not Assessed	River mile 7.0 to headwaters	20	4	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Lower boundary to Prairie Creek	3.8	19	0	
2002	Dissolved Oxygen grab minimum	Use Concern	Prairie Creek to river mile 7.0	3.2	12	2	
2002	Dissolved Oxygen grab minimum	No Concern-Limited Data	River mile 7.0 to headwaters	20	4	0	
2004	Dissolved Oxygen 24hr average	No Concern-Limited Data	Lower boundary to Prairie Creek	3.8	8	0	
2004	Dissolved Oxygen 24hr average	Not Supporting	Prairie Creek to river mile 7.0	3.2	5	5	
2004	Dissolved Oxygen 24hr average	Not Assessed	River mile 7.0 to headwaters	20	3	2	
2004	Dissolved Oxygen 24hr minimum	No Concern-Limited Data	Lower boundary to Prairie Creek	3.8	8	0	
2004	Dissolved Oxygen 24hr minimum	Not Supporting	Prairie Creek to river mile 7.0	3.2	5	5	
2004	Dissolved Oxygen 24hr minimum	Not Assessed	River mile 7.0 to headwaters	20	3	1	
2004	Acute Metals in water Zinc	Fully Supporting	Lower boundary to Prairie Creek	3.8	16	0	
2004	Acute Metals in water Zinc	Partially Supporting	Prairie Creek to river mile 7.0	3.2	14	3	
2004	Acute Metals in water Zinc	Fully Supporting	River mile 7.0 to headwaters	20	10	1	
2004	Chronic Metals in water Zinc	Fully Supporting	Lower boundary to Prairie Creek	3.8	16		10.3
2004	Chronic Metals in water Zinc	Fully Supporting	Prairie Creek to river mile 7.0	3.2	14		58.2
2004	Chronic Metals in water Zinc	Fully Supporting	River mile 7.0 to headwaters	20	10		39.8
2002	Chronic Toxicity tests in water	No Concern-Limited Data	Lower boundary to Prairie Creek	3.8	4	0	

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Aquatic Life Use (continued)

2002	Habitat	No Concern-Limited Data	Lower boundary to Prairie Creek	3.8	1	0	20
2002	Habitat	No Concern-Limited Data	River mile 7.0 to headwaters	20	1	0	24
2004	Macrobenthos Community	No Concern-Limited Data	Lower boundary to Prairie Creek	3.8	1	0	26
2004	Macrobenthos Community	Use Concern-Limited Data	Prairie Creek to river mile 7.0	3.2	1	0	20
2004	Macrobenthos Community	Fully Supporting	River mile 7.0 to headwaters	20	2	0	27
2002	Fish Community	No Concern-Limited Data	Lower boundary to Prairie Creek	3.8	1	0	45
2002	Fish Community	Fully Supporting	Prairie Creek to river mile 7.0	3.2	2	0	45
2002	Fish Community	Fully Supporting	River mile 7.0 to headwaters	20	2	0	50
2004	Overall Aquatic Life Use	Fully Supporting	Lower boundary to Prairie Creek	3.8			
2004	Overall Aquatic Life Use	Not Supporting	Prairie Creek to river mile 7.0	3.2			
2004	Overall Aquatic Life Use	Fully Supporting	River mile 7.0 to headwaters	20			

Contact Recreation Use

2002	E. coli single sample	Not Assessed	Lower boundary to Prairie Creek	3.8	1	0	
2002	E. coli single sample	Not Assessed	Prairie Creek to river mile 7.0	3.2	1	0	
2002	E. coli single sample	Not Assessed	River mile 7.0 to headwaters	20	0		
2002	E. coli geometric mean	Not Assessed	Lower boundary to Prairie Creek	3.8	1		5
2002	E. coli geometric mean	Not Assessed	Prairie Creek to river mile 7.0	3.2	1		5
2002	E. coli geometric mean	Not Assessed	River mile 7.0 to headwaters	20	0		
2002	Fecal coliform single sample	Fully Supporting	Lower boundary to Prairie Creek	3.8	16	0	

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Contact Recreation Use (continued)

2002	Fecal coliform single sample	Fully Supporting	Prairie Creek to river mile 7.0	3.2	11	0	
2002	Fecal coliform single sample	No Concern-Limited Data	River mile 7.0 to headwaters	20	4	0	
2002	Fecal coliform geometric mean	Fully Supporting	Lower boundary to Prairie Creek	3.8	16		96
2002	Fecal coliform geometric mean	Fully Supporting	Prairie Creek to river mile 7.0	3.2	11		
2002	Fecal coliform geometric mean	No Concern-Limited Data	River mile 7.0 to headwaters	20	4		
2002	Overall Recreation Use	Fully Supporting	Lower boundary to Prairie Creek	3.8			
2002	Overall Recreation Use	Fully Supporting	Prairie Creek to river mile 7.0	3.2			
2002	Overall Recreation Use	Not Assessed	River mile 7.0 to headwaters	20			

General Use

2002	Water Temperature	Fully Supporting	Lower boundary to Prairie Creek	3.8	21	0	
2002	Water Temperature	Fully Supporting	Prairie Creek to river mile 7.0	3.2	12	0	
2002	Water Temperature	No Concern-Limited Data	River mile 7.0 to headwaters	20	4	0	
2004	pH	Fully Supporting	Lower boundary to Prairie Creek	3.8	23	0	
2004	pH	Use Concern	Prairie Creek to river mile 7.0	3.2	18	3	
2004	pH	Partially Supporting	River mile 7.0 to headwaters	20	10	3	
2002	Chloride	Fully Supporting	Lower boundary to Prairie Creek	3.8	39		40.8
2002	Chloride	Fully Supporting	Prairie Creek to river mile 7.0	3.2	39		40.8
2002	Chloride	Fully Supporting	River mile 7.0 to headwaters	20	39		40.8
2002	Sulfate	Fully Supporting	Lower boundary to Prairie Creek	3.8	39		46.1
2002	Sulfate	Fully Supporting	Prairie Creek to river mile 7.0	3.2	39		46.1
2002	Sulfate	Fully Supporting	River mile 7.0 to headwaters	20	39		46.1

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General Use (continued)

2002	Total Dissolved Solids	Fully Supporting	Lower boundary to Prairie Creek	3.8	42		233
2002	Total Dissolved Solids	Fully Supporting	Prairie Creek to river mile 7.0	3.2	42		233
2002	Total Dissolved Solids	Fully Supporting	River mile 7.0 to headwaters	20	42		233
2004	Overall General Use	Fully Supporting	Lower boundary to Prairie Creek	3.8			
2004	Overall General Use	Fully Supporting	Prairie Creek to river mile 7.0	3.2			
2004	Overall General Use	Partially Supporting	River mile 7.0 to headwaters	20			

Fish Consumption Use

2002	Human Health Criteria Metals	Fully Supporting	Lower boundary to Prairie Creek	3.8	14		
2002	Human Health Criteria Metals	Fully Supporting	Prairie Creek to river mile 7.0	3.2	12		
2002	Human Health Criteria Metals	No Concern-Limited Data	River mile 7.0 to headwaters	20	4		
2002	Overall Fish Consumption Use	Fully Supporting	Lower boundary to Prairie Creek	3.8			
2002	Overall Fish Consumption Use	Fully Supporting	Prairie Creek to river mile 7.0	3.2			
2002	Overall Fish Consumption Use	Not Assessed	River mile 7.0 to headwaters	20			

Public Water Supply Use

2002	Finished Water: Running Avg	Fully Supporting	Lower boundary to Prairie Creek	3.8			
2002	Finished Water: Running Avg	Fully Supporting	Prairie Creek to river mile 7.0	3.2			
2002	Finished Water: Running Avg	Fully Supporting	River mile 7.0 to headwaters	20			
2002	Surface Water: Long-term average Metals	Fully Supporting	Lower boundary to Prairie Creek	3.8	14		
2002	Surface Water: Long-term average Metals	Fully Supporting	Prairie Creek to river mile 7.0	3.2	12		
2002	Surface Water: Long-term average Metals	No Concern-Limited Data	River mile 7.0 to headwaters	20	4		

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Public Water Supply Use (continued)

2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Lower boundary to Prairie Creek	3.8	18		5.21
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Prairie Creek to river mile 7.0	3.2	14		0.044
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	No Concern-Limited Data	River mile 7.0 to headwaters	20	6		0.052
2002	Surface Water: Running average Metals	Fully Supporting	Lower boundary to Prairie Creek	3.8	14	0	
2002	Surface Water: Running average Metals	Fully Supporting	Prairie Creek to river mile 7.0	3.2	12	0	
2002	Surface Water: Running average Metals	No Concern-Limited Data	River mile 7.0 to headwaters	20	4		
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Lower boundary to Prairie Creek	3.8	18	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Prairie Creek to river mile 7.0	3.2	14	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	No Concern-Limited Data	River mile 7.0 to headwaters	20	6	0	
2002	Overall Public Water Supply Use	Fully Supporting	Lower boundary to Prairie Creek	3.8			
2002	Overall Public Water Supply Use	Fully Supporting	Prairie Creek to river mile 7.0	3.2			
2002	Overall Public Water Supply Use	Fully Supporting	River mile 7.0 to headwaters	20			

Overall Use Support

2004		Fully Supporting	Lower boundary to Prairie Creek	3.8			
2004		Not Supporting	Prairie Creek to river mile 7.0	3.2			
2004		Partially Supporting	River mile 7.0 to headwaters	20			

Nutrient Enrichment Concern

2002	Ammonia Nitrogen	No Concern	Lower boundary to Prairie Creek	3.8	18	1	
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Nutrient Enrichment Concern (continued)

2002	Ammonia Nitrogen	No Concern	Prairie Creek to river mile 7.0	3.2	12	0	
2002	Ammonia Nitrogen	Not Assessed	River mile 7.0 to headwaters	20	4	0	
2002	Nitrite + Nitrate Nitrogen	Concern	Lower boundary to Prairie Creek	3.8	18	15	
2002	Nitrite + Nitrate Nitrogen	No Concern	Prairie Creek to river mile 7.0	3.2	12	0	
2002	Nitrite + Nitrate Nitrogen	Not Assessed	River mile 7.0 to headwaters	20	4	0	
2002	Orthophosphorus	No Concern	Lower boundary to Prairie Creek	3.8	17	1	
2002	Orthophosphorus	No Concern	Prairie Creek to river mile 7.0	3.2	12	2	
2002	Orthophosphorus	Not Assessed	River mile 7.0 to headwaters	20	4	0	
2002	Total Phosphorus	No Concern	Lower boundary to Prairie Creek	3.8	18	0	
2002	Total Phosphorus	No Concern	Prairie Creek to river mile 7.0	3.2	12	1	
2002	Total Phosphorus	Not Assessed	River mile 7.0 to headwaters	20	4	0	
2002	Overall Nutrient Enrichment Concerns	Concern	Lower boundary to Prairie Creek	3.8			
2002	Overall Nutrient Enrichment Concerns	No Concern	Prairie Creek to river mile 7.0	3.2			
2002	Overall Nutrient Enrichment Concerns	Not Assessed	River mile 7.0 to headwaters	20			

Algal Growth Concern

2002	Chlorophyll a	No Concern	Lower boundary to Prairie Creek	3.8	18	0	
2002	Chlorophyll a	No Concern	Prairie Creek to river mile 7.0	3.2	12	0	
2002	Chlorophyll a	Not Assessed	River mile 7.0 to headwaters	20	4	0	

Sediment Contaminants Concern

2002	85% Metals in sediment Manganese	Not Assessed	Lower boundary to Prairie Creek	3.8	3	1	
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Sediment Contaminants Concern (continued)

2002	Metals in sediment	Not Assessed	River mile 7.0 to headwaters	20	1	0	
2002	Overall Sediment Contaminant Concerns	Not Assessed	Lower boundary to Prairie Creek	3.8			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Prairie Creek to river mile 7.0	3.2			
2002	Overall Sediment Contaminant Concerns	Not Assessed	River mile 7.0 to headwaters	20			

Fish Tissue Contaminants Concern

2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Lower boundary to Prairie Creek	3.8			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Prairie Creek to river mile 7.0	3.2			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	River mile 7.0 to headwaters	20			

Public Water Supply Concern

2002	Finished Water: Chloride	No Concern	Lower boundary to Prairie Creek	3.8			
2002	Finished Water: Chloride	No Concern	Prairie Creek to river mile 7.0	3.2			
2002	Finished Water: Chloride	No Concern	River mile 7.0 to headwaters	20			
2002	Finished Water: Sulfate	No Concern	Lower boundary to Prairie Creek	3.8			
2002	Finished Water: Sulfate	No Concern	Prairie Creek to river mile 7.0	3.2			
2002	Finished Water: Sulfate	No Concern	River mile 7.0 to headwaters	20			
2002	Finished Water: Total Dissolved Solids	No Concern	Lower boundary to Prairie Creek	3.8			
2002	Finished Water: Total Dissolved Solids	No Concern	Prairie Creek to river mile 7.0	3.2			

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Public Water Supply Concern (continued)

2002	Finished Water: Total Dissolved Solids	No Concern	River mile 7.0 to headwaters	20			
2002	Finished Water: MTBE	No Concern	Lower boundary to Prairie Creek	3.8			
2002	Finished Water: MTBE	No Concern	Prairie Creek to river mile 7.0	3.2			
2002	Finished Water: MTBE	No Concern	River mile 7.0 to headwaters	20			
2002	Finished Water: Perchlorate	Not Assessed	Lower boundary to Prairie Creek	3.8			
2002	Finished Water: Perchlorate	Not Assessed	Prairie Creek to river mile 7.0	3.2			
2002	Finished Water: Perchlorate	Not Assessed	River mile 7.0 to headwaters	20			
2002	Finished Water: Overall	No Concern	Lower boundary to Prairie Creek	3.8			
2002	Finished Water: Overall	No Concern	Prairie Creek to river mile 7.0	3.2			
2002	Finished Water: Overall	No Concern	River mile 7.0 to headwaters	20			
2002	Surface Water: Chloride	No Concern	Lower boundary to Prairie Creek	3.8	39		40.8
2002	Surface Water: Chloride	No Concern	Prairie Creek to river mile 7.0	3.2	39		40.8
2002	Surface Water: Chloride	No Concern	River mile 7.0 to headwaters	20	39		40.8
2002	Surface Water: Sulfate	No Concern	Lower boundary to Prairie Creek	3.8	39		46.1
2002	Surface Water: Sulfate	No Concern	Prairie Creek to river mile 7.0	3.2	39		46.1
2002	Surface Water: Sulfate	No Concern	River mile 7.0 to headwaters	20	39		46.1
2002	Surface Water: Total Dissolved Solids	No Concern	Lower boundary to Prairie Creek	3.8	42		233
2002	Surface Water: Total Dissolved Solids	No Concern	Prairie Creek to river mile 7.0	3.2	42		233
2002	Surface Water: Total Dissolved Solids	No Concern	River mile 7.0 to headwaters	20	42		233
2002	Surface Water: Overall	No Concern	Lower boundary to Prairie Creek	3.8			

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Public Water Supply Concern (continued)

2002	Surface Water: Overall	No Concern	Prairie Creek to river mile 7.0	3.2			
2002	Surface Water: Overall	No Concern	River mile 7.0 to headwaters	20			
2002	Overall Public Water Supply Concerns	No Concern	Lower boundary to Prairie Creek	3.8			
2002	Overall Public Water Supply Concerns	No Concern	Prairie Creek to river mile 7.0	3.2			
2002	Overall Public Water Supply Concerns	No Concern	River mile 7.0 to headwaters	20			

Narrative Criteria Concern

2002	Overall Narrative Criteria Concerns	No Concern	Lower boundary to Prairie Creek	3.8			
2002	Overall Narrative Criteria Concerns	No Concern	Prairie Creek to river mile 7.0	3.2			
2002	Overall Narrative Criteria Concerns	No Concern	River mile 7.0 to headwaters	20			

Overall Secondary Concern

2002		Concern	Lower boundary to Prairie Creek	3.8			
2002		No Concern	Prairie Creek to river mile 7.0	3.2			
2002		No Concern	River mile 7.0 to headwaters	20			